## **EAST Search History**

## EAST Search History (Prior Art)

Ref#	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	11	((decod\$3) AND ((instruction operation command) NEAR3 (packet datagram pdu)) AND (memory buffer) AND (processor) AND (channel pipeline) AND (branch ((program application) NEAR2 (flow)) address) AND (data NEAR2 process\$4) AND (identifier bit)) .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/13 13:34
S1	2	"813628".ap.	US-PGPUB	OR	ON	2008/10/08 09:46
<b>S</b> 2	25	("20020010852"   "20020063577"   "20020174266"   "20050044434"   "5423051"   "5600810"   "5737631"   "5956518"   "5922065"   "6061367"   "6725357"   "6880150").PN.	US PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 09:48
\$3	12	("20020010852"   "20020063577"   "20020174266"   "20050044434"   "5423051"   "5600810"   "5737631"   "5956518"   "5922065"   "6061367"   "6725357"   "6880150").FN.	US-PGPUB; USPAT	OR	ON	2008/10/08 09:48
S4	3261	(processor CPU) SAME (decod\$3) SAME (channel pipeline) SAME (control instruction) SAME (plurality two)	US PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 09:55
<b>S</b> 5	1	S4 AND S3	US PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 09:56

<b>S</b> 6	13	((SIMON) near2 (KNOWLES)).INV.	US-PGPUB; USPAT	OR	ON	2008/10/08 11:45
S7	13	((SIMON) near2 (KNOWLES)).INV.	US-PGPUB; USPAT	OR	ON	2009/06/11 14:16
S8	12	("20020010852"   "20020063577"   "20020174266"   "20050044434"   "5423051"   "5600810"   "5737631"   "5956518"   "5922065"   "6061367"   "6725357"   "6880150").PN.	US-PGPUB; USPAT	OR	ON	2009/06/11 14:16
S9	3455	(processor CPU) SAME (decod\$3) SAME (channel pipeline) SAME (control instruction) SAME (plurality two)	US PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/11 14:16
S10	1	S9 AND S8	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/11 14:16
S11	13	((SIMON) near2 (KNOWLES)).INV.	US-PGPUB; USPAT	OR	ON	2009/11/24 14:56
S12	45894	(instruction command) NEAR3 (packet group)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/01 13:12
S13	394908	(process\$3 control) NEAR3 (channel path)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/01 13:12
S14	335352	(data memory) NEAR3 (channel path)	US PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/01 13:13

S15	245175	(control branch address\$3 (program NEAR flow)) NEAR3 (instruction command)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/01 13:14
S16	485888	(data logical operation arithmetic) NEAR3 (instruction command)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/01 13:14
S17	658770	decod\$4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/01 13:15
S18	3	S12 SAME S13 SAME S14 SAME S15 SAME S16 SAME S17	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/01 13:15
S19	24	("5115496"   "5241644"   "5560028"   "5617549"   "5974537"   "6304953").PN. OR ("6725357").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/01 13:19
S20	13	((SIMON) near2 (KNOWLES)).1NV.	US-PGPUB; USPAT	OR	ON	2009/12/01 13:19
\$21	28	S12 SAME S13 SAME S14 SAME S15 SAME S16	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/01 13:23
S22	309	two ADJ process\$3 ADJ channel	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/01 13:44

S23	9	\$22 AND (control NEAR3 instruction)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/01 13:45
S24	11	("5051885"   "5355460"   "5761470"   "5870619"   "5878241"   "5966528"   "6076154"   "6230180"   "6292845"   "6317820"   "6697774").FN. OR ("7234042").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/01 13:49
\$25	50	("3735363" "3831151" "3839705" "3990052" "4042972" "4167779" "4236206" "4315321" "4398243" "4434459" "4437149" "4549262" "4613935" "4715013" "4739470" "47424511" "4760520" "4780811" "4789957" "4794518" "4876642" "4954947" "4964035" "4967349" "5021991" "5099421" "5121488" "5129068" "5150469" "5197130" "5227987" "5237700" "5239633" "5241635" "5249266" "5269006" "5293591" "5297071" "5299321" "5301285" "5303355" "5357617" "5361338" "5404557" "5475822" "5490265" "5497496" "5509129" "5539888" "5542060" ).pn.	US-PCPUB; USPAT	OR .	ON	2009/12/01 14:02
<b>5</b> 26	50	("5692168" "5706491" "5732243" "5732253" "5740416" "5835967" "5835951" "6044460" "4477872" "5680597" "5911083" "4251859" "4282584" "4310840" "4763245" "4982402" "5202967" "5390305" "5430851" "5481693" "5495587" "5495590" "5502826" "5542059" "5627982" "5729727" "5734881" "5805918" "5872978" "5884057" "5923862" "5933850" "5941984" "5987620" "5996071" "6076155" "4399505" "4434462" "4574349" "4773002" "4777587" "5185869" "5210831" "5243705" "5317702" "5394558" "5408625" "5421020" "5467476" "5488729" ).pn.	US-PGPUB; USPAT	OR .	ON	2009/12/01 14:02

S27	24	("4114026"   "4236206"   "4280177"   "4502111"   "4530050"   "4654781"   "4888679"   "5051885"   "5201056"   "5371864"   "5488710"   "5537629"   "5898851"   "5938759"   "5987235"   "6012137"   "6134650"   "6170050").PN. OR ("6292845").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/01 14:26
\$28	6509	(712/1-4,7,9,10,11,13,16,22,24,208,210,214- 215,220,221,223,225).COLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/02 15:22
S29	1189	((first one) NEAR2 (channel pipeline) NEAR5 (memory load store access)) SAME ((two second) NEAR2 (channel pipeline) NEAR5 (memory load store access))	US-PGPUB	OR	ON	2009/12/03 10:13
\$31	6522	(712/1-4,7,9,10,11,13,16,22,24,208,210,214- 215,220,221,223,225).COLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/03 10:14
S32	15	\$29 AND \$31	US-PGPUB	OR	ON	2009/12/03 10:14
S33	7161	(single NEAR instruction NEAR multiple NEAR data) SMD	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/03 15:09
S34	788	S33 SAME pipeline	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/03 15:10

\$35	61	S34 SAME fixed	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/03 15:10
S36	4653	((opcode instruction command operation) NEAR2 (packet frame datagram)) WITH (type class)	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 11:09
\$37	79	S36 SAME ((first) NEAR2 (type class)) SAME ((second ) NEAR2 (type class))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 11:10
S38	14	("20020010852"   "20020063577"   "20020174266"   "20030154358"   "20030154358"   "20030154358"   "20040215593"   "20050044434"   "5423051"   "5600810"   "5737631"   "5922065"   "5956518"   "5600810"   "6061367"   "6725357"   "6880150"). PN.	US PGPUB; USPAT	OR	ON	2010/06/21 13:46
S39	4	("20030154358"   "5600810").FN.	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 13:47
S40	282	(identify\$4 classify\$3) WITH ((opcode instruction command operation) NEAP2 (packet frame datagram)) WITH (type class)	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 14:50

S41	48	(identify\$4 classify\$3) WITH ((opcode instruction command operation) NEAR2 (packet frame datagram)) WITH (type class) WITH (bit byte flag)	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 14:50
S42	13	((SIMON) near2 (KNOWLES)).INV.	US-PGPUB; USPAT	OR	ON	2010/06/21 14:53
S43	3145	(712/205,206,208,214,214,220,245).CO.S.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2010/06/21 14:57
S44	6882	(712/1-4,7,9,10,11,13,16,22,24,208,210,214- 215,220,221,223,225).OCLS.	US-PCPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/21 14:58
S45	3	\$40 AND \$44	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/21 14:58
S46	124821	(instruction command opcode operation) NEAR2 (packet frame group datagram)	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/22 13:12
S47	15207	(two plurality multiple many) NEAR2 (control) NEAR2 (operation instruction command opcode)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/22 13:13

S48	1055837	(data read\$3 writ\$3 stor\$3) NEAR2 (instruction operation command)	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/22 13:13
S49	58	S46 SAME S47 SAME S48	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/22 13:14
S50	6887	(712/1-4,7,9,10,11,13,16,22,24,208,210,214- 215,220,221,223,225).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/22
S51	11	S49 AND S50	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/22 13:14
S52	47	S49 NOT S51	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2010/06/22 13:33
S53	132	S46 SAME (frame packet datagram instruction command opcode operation) NEAR3 (type class) NEAR3 (bit byte indicator indication flag) NEAR3 (location area space field)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/22 13:36

S54	19	S53 AND S50	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/22 13:38
S55	43	\$53 SAME ((command packet instruction operation frame datagram op\$code group) NEAR3 (decod\$3 encod\$3 divid\$3 split\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/22 13:41
S56	3147	(712/205,206,208,214,214,220,245).CO.S.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2010/06/22 14:45
S57	8	S49 AND S56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/22 14:45
S58	1942	(decod\$3 decrypt\$3) NEAR2 (packet frame group) NEAR2 (instruction command op\$code operation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/23 09:50
S59	210	S58 WITH (flag bit byte type class)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2010/06/23 09:52

S60	6887	(712/1-4,7,9,10,11,13,16,22,24,208,210,214- 215,220,221,223,225).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/23 09:53
S61	3147	(712/205,206,208,214,214,220,245).CQLS.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2010/06/23 09:53
S62	30	S59 AND (S60 S61)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/23 09:53
\$63	50	("3735363" "3831151" "3839705" "3990052" "4042972" "4167779" "4236206" "4315321" "4398243" "4434459" "4437149" "4549262" "4613935" "47151013" "4739470" "4742451" "4760520" "4780811" "4789957" "4794518" "4876642" "4954947" "4964035" "4967349" "5021991" "5099421" "5121488" "5129068" "5150469" "5197130" "5227987" "5237700" "5239633" "5241635" "5249266" "5269008" "5293591" "5297071" "5299321" "5301285" "5303355" "5357617" "5361338" "5404557" "5475822" "5490265" "5497496" "5509129" "5539888" "5542060" ).pn.	US-PGPUB; USPAT	OR	ON	2010/06/23 10:11

\$64	49	"4554627" "4851995" "5280593" "5473774" "5692168" "5706491" "5732243" "5732253" "5740416" "5835967" "5835951" "4386399" "4398243" "4532590" "4594655" "4860199" "6044460" "6170051" "4352157" "4376977" "4493033" "4616313" "4847755" "5203002" "5241635" "5274818" "5386531" "5426634" "5457780" "5600844" "5627988" "5680597" "5740365" "5745758" RE35794 "5806068" "5832289" "5867712" "5911083" "5983004" "6067609" "6173388" "6185667" "6212628" "6212628" "6233590" "4251862" "4251859" "4282584" "4287561" ).pn.	US-PCPUB; USPAT	OR	ON	2010/06/23
<b>S</b> 65	1	S59 AND (S63 S64)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB	OR	ON	2010/06/23 10:12
S66	10	S58 AND (S63 S64)	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/23 10:45
S67	0	SS8 WITH ((flag bit byte) NEAR2 (type class))	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/23 10:48

S68	5	S58 SAME((flag bit byte) NEAF2 (type class))	US-PGPUB; USPAT; USOCR; FPPS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/23 10:48
S69	5	S58 SAME ((flag bit byte) NEAR2 (type class))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/23 10:48
S70	13	((SIMON) near2 (KNOWLES)).INV.	US-PGPUB; USPAT	OR	ON	2010/06/23 10:49
S71	24	("4114026"   "4236206"   "4280177"   "4502111"   "4530050"   "4654781"   "4888679"   "5051885"   "5201056"   "5371864"   "5488710"   "5537629"   "5898851"   "5938759"   "5987235"   "6012137"   "6134650"   "6170050").PN. OR ("6292845").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/23 12:32
S72	11	("5051885"   "5355460"   "5761470"   "5870619"   "5878241"   "5966528"   "6076154"   "6230180"   "6292845"   "6317820"   "6697774").PN. OR ("7234042").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/10 14:58
S73	14	("20020010852"   "20020063577"   "20020174266"   "20030154358"   "20030154358"   "20030154358"   "20040215593"   "20050044434"   "5423051"   "5600810"   "5737631"   "5922065"   "5956518"   "5600810"   "6061367"   "6725357"   "6880150"). PN.	US-PGPUB; USPAT	OR	ON	2010/12/10 15:10
S74	4	("2005/0044434").URPN.	USPAT	OR	ON	2010/12/10 15:42

S75	70	(separat\$4) WITH ((branch\$4 address\$4) WITH (data NEAR3 (process\$4))) WITH (decod\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/13 10:27
S76	12	("20020010852"   "20020063577"   "20020174266"   "20050044434"   "5423051"   "5600810"   "5737631"   "5956518"   "5922065"   "6061367"   "6725357"   "6880150").FN.	US-PGPUB; USPAT	OR	ON	2010/12/13 10:28
S77	7241	(712/1-4,7,9,10,11,13,16,22,24,208,210,214- 215,220,221,223,225).COLS.	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/12/13 10:28
S78	3363	(712/205,206,208,214,214,220,245).CQLS.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2010/12/13 10:28
S79	3	(S78 S77) AND S76	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/13 10:28
\$80	3	(\$78 \$77) AND \$75	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/13 10:28

\$81	15	S75 SAME (processor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/13 10:40
\$82	65	(branch NEAR3 (pipeline unit)) SAME (data NEAR2 (process\$4) NEAR3 (pipeline unit)) SAME (decod\$3 NEAR3 (instruction operation command))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/13 10:58
S83	14	((SIMON) near2 (KNOWLES)).INV.	US-PGPUB; USPAT	OR	ON	2010/12/13 11:58

## EAST Search History (Interference)

Ref#	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	11	((decod\$3) AND ((instruction operation command) NEAR3 (packet datagram pdu)) AND (memory buffer) AND (processor) AND (channel pipeline) AND (branch ((program application) NEAR2 (flow)) address) AND (data NEAR2 process\$4) AND (identifier bit)).clm.	US-PCPUB; USPAT; UPAD	OR	ON	2010/12/13 13:34
L3	15	((decod\$3) AND ((instruction operation command) NEAR3 (packet datagram pdu)) AND (memory buffer) AND (processor) AND (channel pipeline) AND (branch ((program application) NEAR2 (flow)) address) AND (data NEAR2 process\$4)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2010/12/13 13:39

L4	16	((decod\$3) AND ((instruction operation command) NEAR3 (packet datagram pdu)) AND (processor) AND (channel pipeline) AND (branch ((program application) NEAR2 (flow)) address) AND (data NEAR2 process\$4)).clm.	US-PCPUB; USPAT; UPAD	OR	ON	2010/12/13 14:30
L5	1	4 NOT 3	US-PGPUB; USPAT; UPAD	OR	ON	2010/12/13 14:31
L6	66	(((instruction operation command) NEAR3 (packet datagram pdu)) AND (processor) AND (channel pipeline) AND (branch ((program application) NEAR2 (flow)) address) AND (data NEAR2 process\$4)).clm.	US-PCPUB; USPAT; UPAD	OR	ON	2010/12/13 14:31

## 12/13/2010 2:35:21 PM

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